## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10 524,1

Source:

Date Processed by STIC:

# ENTERED



25

30

26

PCT

RAW SEQUENCE LISTING DATE: 01/26/2006
PATENT APPLICATION: US/10/524,193A TIME: 09:22:40

Input Set : A:\81356232.APP

Output Set: N:\CRF4\01262006\J524193A.raw

```
4 <110> APPLICANT: NAKASHIMA, NOBUTAKA
5 TAMURA, TOMOHIRO
7 <120> TITLE OF INVENTION: NOVEL EXPRESSION VECTOR SUITABLE FOR EXPRESSION OF
RECOMBINANT
8 PROTEIN AT LOW TEMPERATURE
10 <130> FILE REFERENCE: 081356-0232
12 <140> CURRENT APPLICATION NUMBER: 10/524,193A
13 <141> CURRENT FILING DATE: 2005-02-11
15 <150> PRIOR APPLICATION NUMBER: PCT/JP03/10209
16 <151> PRIOR FILING DATE: 2003-08-11
18 <150> PRIOR APPLICATION NUMBER: JP 2002/235008
19 <151> PRIOR FILING DATE: 2002-08-12
21 <160> NUMBER OF SEQ ID NOS: 131
```

- 23 <170> SOFTWARE: PatentIn Ver. 3.3 25 <210> SEQ ID NO: 1
- 26 <211> LENGTH: 25
- 27 <212> TYPE: DNA
- 28 <213> ORGANISM: Artificial Sequence
- 30 <220> FEATURE:
- 31 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer
- 32 sHN1
- 34 <400> SEQUENCE: 1
- 35 cagagetegt caggtggeac tttte
- 37 <210> SEQ ID NO: 2
- 38 <211> LENGTH: 30
- 39 <212> TYPE: DNA
- 40 <213> ORGANISM: Artificial Sequence
- 42 <220> FEATURE:
- 43 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer
- 44 sHN2
- 46 <400> SEQUENCE: 2
- 47 gttgtacaac tagtcgtgcc agctgcatta
- 49 <210> SEQ ID NO: 3
- 50 <211> LENGTH: 26
- 51 <212> TYPE: DNA
- 52 <213> ORGANISM: Artificial Sequence
- 54 <220> FEATURE:
- 55 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer
- 56 sHN120
- 58 <400> SEQUENCE: 3
- 59 gctgtacacc cgagaagctc ccagcg
- 62 <210> SEQ ID NO: 4
- 63 <211> LENGTH: 29
- 64 <212> TYPE: DNA

## RAW SEQUENCE LISTING DATE: 01/26/2006 PATENT APPLICATION: US/10/524,193A TIME: 09:22:40

Input Set : A:\81356232.APP

Output Set: N:\CRF4\01262006\J524193A.raw

65 <213> ORGANISM: Artificial Sequence 67 <220> FEATURE: 68 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer 69 sHN121 71 <400> SEQUENCE: 4 29 72 cggagctctt gaacgagagt tggccgttg 74 <210> SEQ ID NO: 5 75 <211> LENGTH: 39 76 <212> TYPE: DNA 77 <213> ORGANISM: Artificial Sequence 79 <220> FEATURE: 80 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer sHN122 83 <400> SEQUENCE: 5 39 84 tcagatctat cgtcatcgac tgcgatcacg ttgacgccg 86 <210> SEQ ID NO: 6 87 <211> LENGTH: 31 88 <212> TYPE: DNA 89 <213> ORGANISM: Artificial Sequence 91 <220> FEATURE: 92 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer 93 sHN123 95 <400> SEQUENCE: 6 96 acggatecte egetgaaate tegeogtgee t 31 98 <210> SEQ ID NO: 7 99 <211> LENGTH: 28 100 <212> TYPE: DNA 101 <213> ORGANISM: Artificial Sequence 103 <220> FEATURE: 104 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer sHN130 107 <400> SEQUENCE: 7 108 cttcatatgc ggagctcgac cgcgcggg 28 110 <210> SEQ ID NO: 8 111 <211> LENGTH: 24 112 <212> TYPE: DNA 113 <213> ORGANISM: Artificial Sequence 115 <220> FEATURE: 116 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer 117 sHN131 119 <400> SEQUENCE: 8 24 120 atcgagtcgt tcaagggcgt cggc 121 <210> SEQ ID NO: 9 122 <211> LENGTH: 23 123 <212> TYPE: DNA 124 <213> ORGANISM: Artificial Sequence 126 <220> FEATURE:

127 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer

NEB1233

128

## RAW SEQUENCE LISTING DATE: 01/26/2006 PATENT APPLICATION: US/10/524,193A TIME: 09:22:40

Input Set : A:\81356232.APP

Output Set: N:\CRF4\01262006\J524193A.raw

130 <400> SEQUENCE: 9 131 agcggataac aatttcacac agg 23 133 <210> SEQ ID NO: 10 134 <211> LENGTH: 19 135 <212> TYPE: DNA 136 <213> ORGANISM: Artificial Sequence 138 <220> FEATURE: 139 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer sHN10 142 <400> SEOUENCE: 10 143 caccaggatg atccccgac 19 145 <210> SEQ ID NO: 11 146 <211> LENGTH: 18 147 <212> TYPE: DNA 148 <213> ORGANISM: Artificial Sequence · 150 <220> FEATURE: 151 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer sHN11 154 <400> SEQUENCE: 11 155 gacagtgaca tcaccagc 18 157 <210> SEQ ID NO: 12 158 <211> LENGTH: 24 159 <212> TYPE: DNA 160 <213> ORGANISM: Artificial Sequence 162 <220> FEATURE: 163 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer NEB1224 164 166 <400> SEQUENCE: 12 167 cgccagggtt ttcccagtca cgac 24 169 <210> SEQ ID NO: 13 170 <211> LENGTH: 24 171 <212> TYPE: DNA 172 <213> ORGANISM: Artificial Sequence 174 <220> FEATURE: 175 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer 176 sHN40 178 <400> SEQUENCE: 13 179 atgagctact ccgtgggaca ggtg 24 181 <210> SEQ ID NO: 14 182 <211> LENGTH: 29 183 <212> TYPE: DNA 184 <213> ORGANISM: Artificial Sequence 186 <220> FEATURE: 187 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer 188 sHN41 190 <400> SEQUENCE: 14

193 <210> SEQ ID NO: 15 194 <211> LENGTH: 26

191 tgcagatctt ccgtttcgac gtgacggag

29

## RAW SEQUENCE LISTING DATE: 01/26/2006 PATENT APPLICATION: US/10/524,193A TIME: 09:22:40

Input Set : A:\81356232.APP

Output Set: N:\CRF4\01262006\J524193A.raw

- 195 <212> TYPE: DNA 196 <213> ORGANISM: Artificial Sequence 198 <220> FEATURE: 199 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer 200 202 <400> SEQUENCE: 15 203 cagtctagaa ttgatctcct cgaccg 26 205 <210> SEQ ID NO: 16 206 <211> LENGTH: 20 207 <212> TYPE: DNA 208 <213> ORGANISM: Artificial Sequence 210 <220> FEATURE: 211 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer 212 sHN43 214 <400> SEQUENCE: 16 215 tgcaagctcc tatgtaaacg 20 218 <210> SEQ ID NO: 17 219 <211> LENGTH: 19 220 <212> TYPE: DNA 221 <213> ORGANISM: Artificial Sequence 223 <220> FEATURE: 224 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer 225 sHN55 227 <400> SEQUENCE: 17 228 cgcctgctcc acggccgcc 19 230 <210> SEQ ID NO: 18 231 <211> LENGTH: 18 232 <212> TYPE: DNA 233 <213> ORGANISM: Artificial Sequence 235 <220> FEATURE: 236 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer 237 sHN56 239 <400> SEQUENCE: 18 240 atggaggcac gcagcatg 18 242 <210> SEQ ID NO: 19 243 <211> LENGTH: 19 244 <212> TYPE: DNA 245 <213> ORGANISM: Artificial Sequence 247 <220> FEATURE: 248 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer sHN57 249 251 <400> SEQUENCE: 19 252 cgcccctcg gagtcggcg 19 254 <210> SEQ ID NO: 20 255 <211> LENGTH: 18 256 <212> TYPE: DNA

260 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer

259 <220> FEATURE:

257 <213> ORGANISM: Artificial Sequence

## RAW SEQUENCE LISTING DATE: 01/26/2006 PATENT APPLICATION: US/10/524,193A TIME: 09:22:40

Input Set : A:\81356232.APP

Output Set: N:\CRF4\01262006\J524193A.raw

261 sHN58 263 <400> SEQUENCE: 20 264 atggacgccg ccgaggac 18 265 <210> SEQ ID NO: 21 266 <211> LENGTH: 26 267 <212> TYPE: DNA 268 <213> ORGANISM: Artificial Sequence 270 <220> FEATURE: 271 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer 272 sHN147 274 <400> SEQUENCE: 21 275 cgtgtacata tcgaggcggg ctccca 26 277 <210> SEQ ID NO: 22 278 <211> LENGTH: 31 279 <212> TYPE: DNA 280 <213> ORGANISM: Artificial Sequence 282 <220> FEATURE: 283 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer 284 sHN39 286 <400> SEOUENCE: 22 287 atccatggcc gctcccttct ctgacgccgt c 31 289 <210> SEQ ID NO: 23 290 <211> LENGTH: 22 291 <212> TYPE: DNA 292 <213> ORGANISM: Artificial Sequence 294 <220> FEATURE: 295 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer 296 sHN36 298 <400> SEQUENCE: 23 299 accatggatc aggaatgcat ag 22 301 <210> SEQ ID NO: 24 302 <211> LENGTH: 59 303 <212> TYPE: DNA 304 <213> ORGANISM: Artificial Sequence 306 <220> FEATURE: 307 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer 308 sHN37 310 <400> SEQUENCE: 24 311 ttactagttt attaatgatg atgatgatga tgcaggtgtt tcaggatgaa atccgaaag 59 313 <210> SEQ ID NO: 25 314 <211> LENGTH: 29 315 <212> TYPE: DNA 316 <213> ORGANISM: Artificial Sequence 318 <220> FEATURE: 319 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer sHN6 322 <400> SEQUENCE: 25 323 cgtctagagt cccgctgagg cggcgtagc 29

325 <210> SEQ ID NO: 26

VERIFICATION SUMMARY

DATE: 01/26/2006

PATENT APPLICATION: US/10/524,193A

TIME: 09:22:41

Input Set : A:\81356232.APP

Output Set: N:\CRF4\01262006\J524193A.raw